

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/061801 A2(51) International Patent Classification⁷:

B01D

Patrick, J. [US/US]; 2742 Oak Road, Apt. 212, Walnut Creek, CA 94596 (US).

(21) International Application Number: PCT/US03/01746

(22) International Filing Date: 21 January 2003 (21.01.2003)

(25) Filing Language: English

(74) Agent: WASSON, George, W.; 3123 Indian Way, Lafayette, CA 94549 (US).

(26) Publication Language: English

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data: 22 J July 04
60/350,605 22 January 2002 (22.01.2002) US

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,

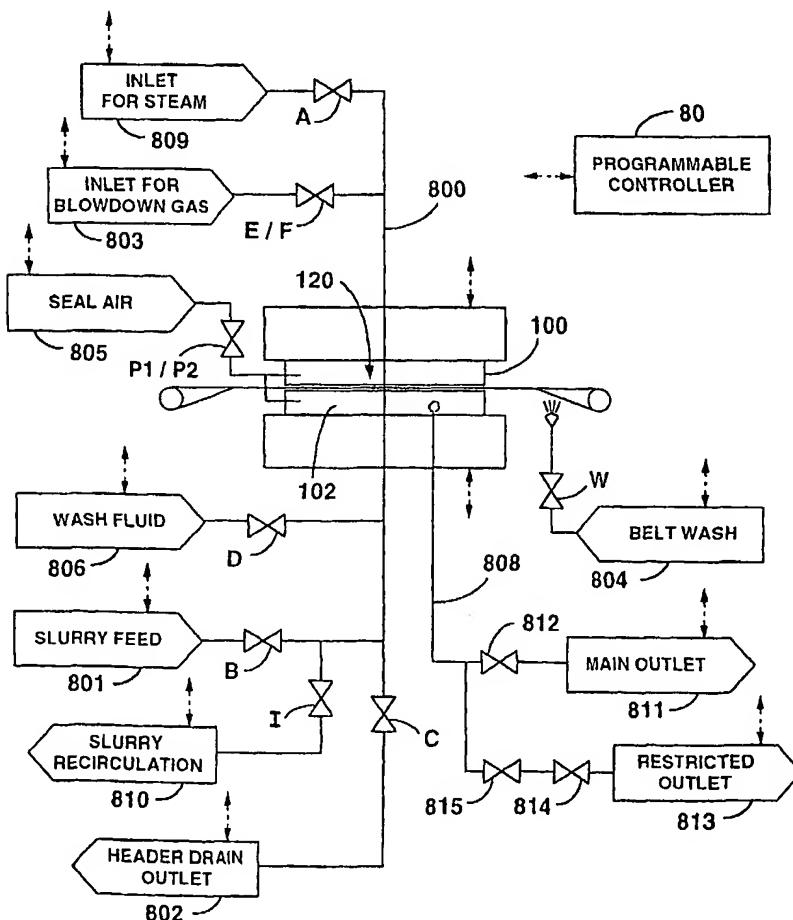
(71) Applicant (for all designated States except US): BENESI, Steve, C. [US/US]; 611 McClay Road, Novato, CA 94947 (US).

[Continued on next page]

(72) Inventor; and

(75) Inventor/Applicant (for US only): COSTELLOE,

(54) Title: HOT-GAS PRESSURE-FILTER APPARATUS



(57) Abstract: A pressure-filter is disclosed along with its peripheral equipment that permit the automatic controlled operation of the filter for extracting liquids from a fluid liquid/solid slurry and for the formation of a substantially dry filter cake. The efficiency of the filter apparatus is increased by the use of hot gas as a material for treating the cake within the filter for extracting the liquids as filtrate. The hot gas may be hot air, hot inert gas, steam, or combinations thereof in controlled sequences. The filter is adapted to be able to operate under vacuum or elevated pressure and at elevated temperatures.

WO 03/061801 A2



SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Declaration under Rule 4.17:

- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *without international search report and to be republished upon receipt of that report*